8/20/04

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612rxd

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	May 12	EXTEND option available in structure searching
NEWS 4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS 6	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS 7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS 9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS 10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS 11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS 12	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS 13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS 14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS 15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004

NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

8/20/04

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:53:37 ON 20 AUG 2004

=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:53:45 ON 20 AUG 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 18 AUG 2004 HIGHEST RN 728239-10-9
DICTIONARY FILE UPDATES: 18 AUG 2004 HIGHEST RN 728239-10-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

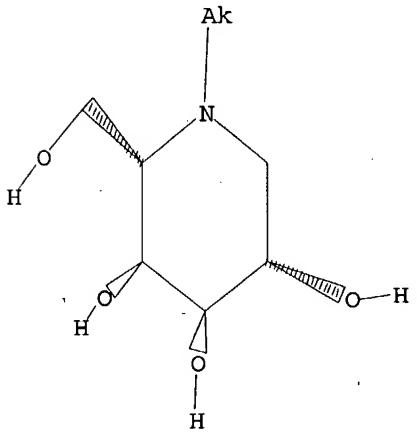
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10618165.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



8/20/04

Structure attributes must be viewed using STN Express query preparation.

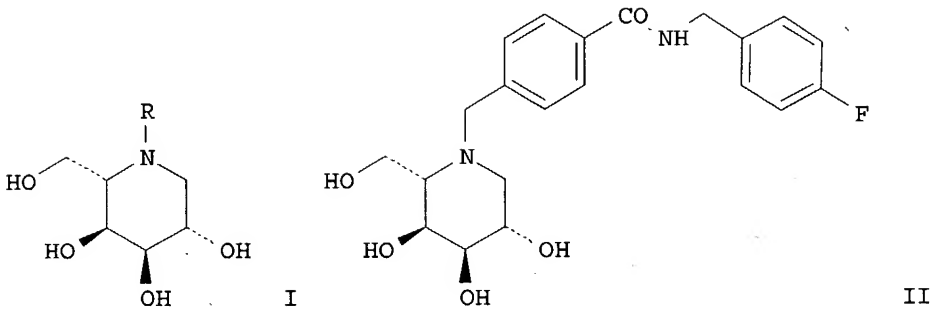
```
=> s l1
SAMPLE SEARCH INITIATED 12:54:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     463 TO ITERATE

100.0% PROCESSED     463 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          7970 TO    10550
PROJECTED ANSWERS:                0 TO        0

L2             0 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 12:54:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    9456 TO ITERATE

100.0% PROCESSED    9456 ITERATIONS                                 24 ANSWERS
SEARCH TIME: 00.00.01

L3            24 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   155.42     155.63

FILE 'CAPLUS' ENTERED AT 12:54:16 ON 20 AUG 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 20 Aug 2004  VOL 141 ISS 8
FILE LAST UPDATED: 18 Aug 2004  (20040818/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s l3
L4             6 L3

=> d abs bib hitstr 1-6
```

8/20/04

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
GI



AB Aza-sugar piperidinetriol derivs. I; wherein R is substituted alkylphenyl, alkylpyridiyl, were prepared as inhibitors of glucosylceramide synthase. Thus, II was prepared and tested in vitro as antiviral agent and inhibitor of glycosylceramide synthase (IC50 range = 0.1 to > 100.0 μM).

AN 2004:60472 CAPLUS

DN 140:94233

TI Preparation of aza-sugar piperidinetriol derivatives as antiviral and antitumor agents and inhibitors of glycosylceramide synthase

IN Ali, Mezher Hussein; Orchard, Michael Glen

PA Oxford Glycosciences (UK) Ltd., UK

SO PCT Int. Appl., 31 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004007454	A1	20040122	WO 2003-GB3244	20030717

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI GB 2002-16656 A 20020717
GB 2003-1480 A 20030122
GB 2003-13674 A 20030613

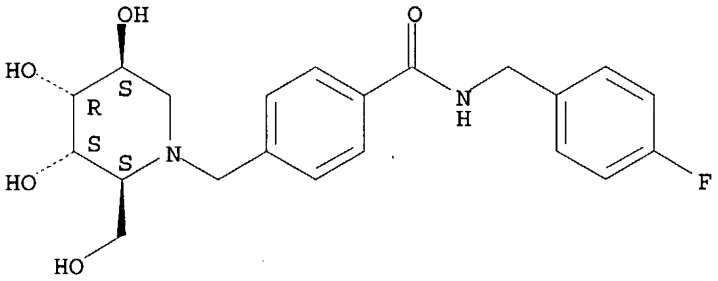
OS MARPAT 140:94233

IT **644960-50-9P 644960-51-0P 644960-52-1P 644960-53-2P 644960-54-3P 644960-55-4P 644960-56-5P 644960-57-6P 644960-58-7P 644960-59-8P**
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);

PREP (Preparation); USES (Uses)
(preparation of azasugar piperidinetriol derivs. as antiviral and antitumor agents and inhibitors of glycosylceramide synthase)

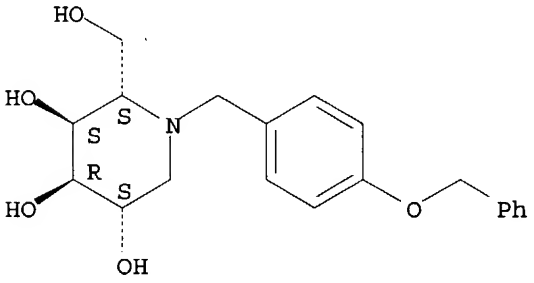
RN 644960-50-9 CAPLUS
CN Benzamide, N-[(4-fluorophenyl)methyl]-4-[[(2S,3S,4R,5S)-3,4,5-trihydroxy-2-(hydroxymethyl)-1-piperidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



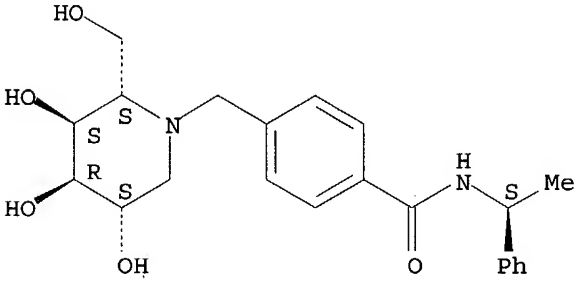
RN 644960-51-0 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-[[4-(phenylmethoxy)phenyl]methyl]-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 644960-52-1 CAPLUS
CN Benzamide, N-[(1S)-1-phenylethyl]-4-[[(2S,3S,4R,5S)-3,4,5-trihydroxy-2-(hydroxymethyl)-1-piperidinyl]methyl]- (9CI) (CA INDEX NAME)

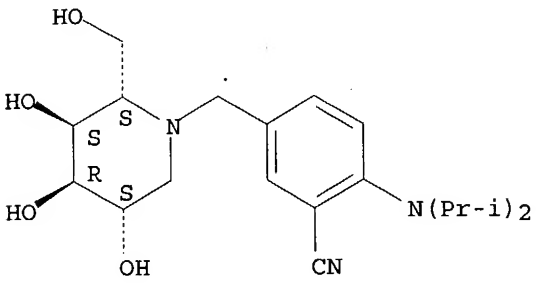
Absolute stereochemistry.



RN 644960-53-2 CAPLUS
CN Benzonitrile, 2-[bis(1-methylethyl)amino]-5-[[(2S,3S,4R,5S)-3,4,5-

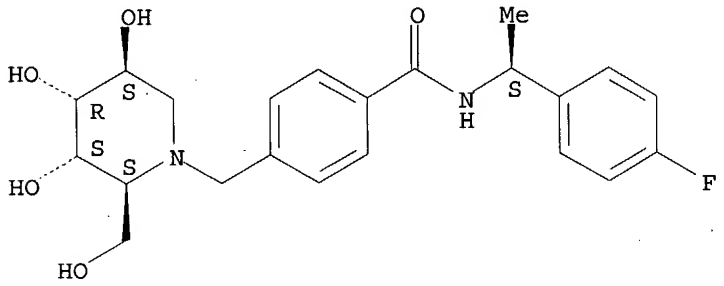
trihydroxy-2-(hydroxymethyl)-1-piperidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



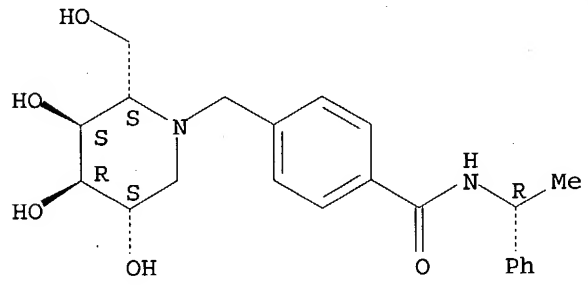
RN 644960-54-3 CAPLUS
CN Benzamide, N-[(1S)-1-(4-fluorophenyl)ethyl]-4-[[(2S,3S,4R,5S)-3,4,5-trihydroxy-2-(hydroxymethyl)-1-piperidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



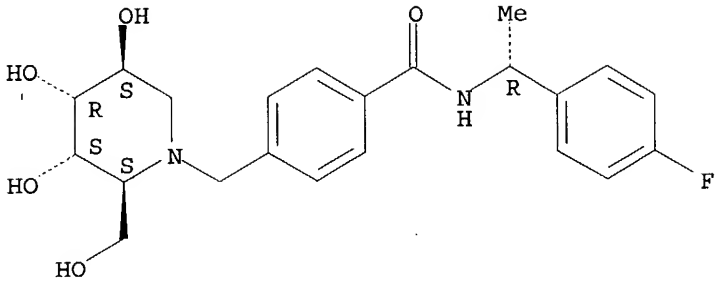
RN 644960-55-4 CAPLUS
CN Benzamide, N-[(1R)-1-phenylethyl]-4-[[(2S,3S,4R,5S)-3,4,5-trihydroxy-2-(hydroxymethyl)-1-piperidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



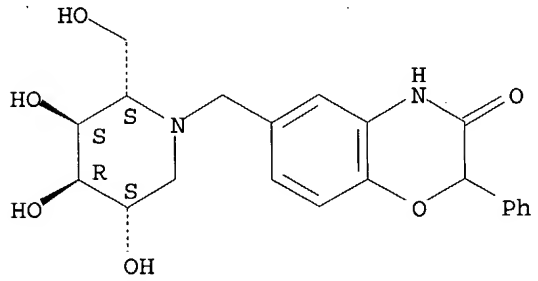
RN 644960-56-5 CAPLUS
CN Benzamide, N-[(1R)-1-(4-fluorophenyl)ethyl]-4-[[(2S,3S,4R,5S)-3,4,5-trihydroxy-2-(hydroxymethyl)-1-piperidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



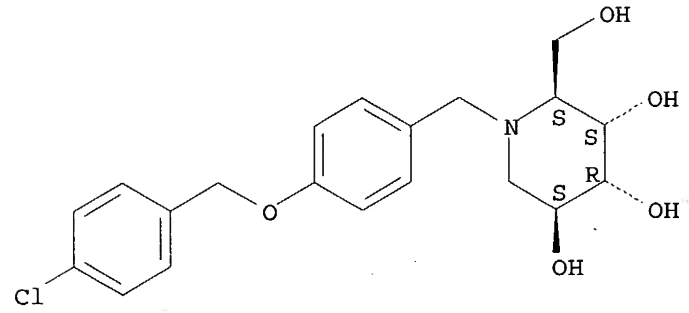
RN 644960-57-6 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 2-phenyl-6-[[(2S,3S,4R,5S)-3,4,5-trihydroxy-2-(hydroxymethyl)-1-piperidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



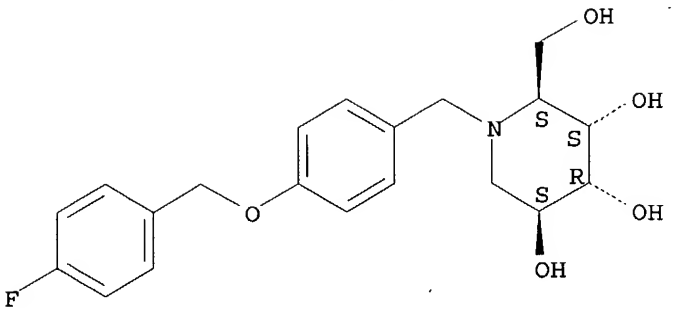
RN 644960-58-7 CAPLUS
CN 3,4,5-Piperidinetriol, 1-[[4-[(4-chlorophenyl)methoxy]phenyl]methyl]-2-(hydroxymethyl)-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



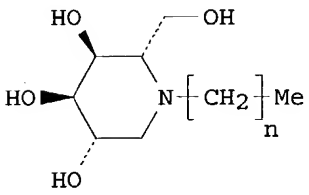
RN 644960-59-8 CAPLUS
CN 3,4,5-Piperidinetriol, 1-[[4-[(4-fluorophenyl)methoxy]phenyl]methyl]-2-(hydroxymethyl)-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
GI

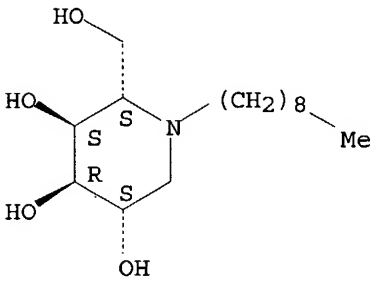


I

AB We have reductively alkylated deoxynojirimycin imino sugars using sodium cyanoborohydride to provide an efficient means of generating a series of N-alkylated compds. containing 4-18 carbon side chains, I (n = 2-4, 6-8, 10, 14, 16). The yields were greater than 90% using a variety of aldehydes of different chain lengths, and after purification were > 95% pure using 1H-NMR. Radiolabeled compds. were prepared using sodium cyanoborotritide to selectively label the first carbon atom in the alkyl chain and used in protein-binding and cell- and tissue-uptake expts. Protein binding was chain-length-dependent with compds. of intermediate chain length (C9-C12), demonstrating an equal distribution between the aqueous and protein-bound phase. The extent of cell uptake also increased proportionally with increased chain length in a time-dependent manner. When administered to mice, the longer alkyl-chain compds. showed reduced absorption from the intestine and a marked deposition of compound in the liver and brain, suggesting that the more hydrophobic compds. were poorly cleared by the major tissues. In tissue-culture cells, compds. with 8 or fewer carbon atoms were non-toxic and had CC50 (the concentration at which the number of cells or cell proliferation is reduced by 50%) values greater than 1 mM. Compds. with chain lengths above C8 showed a chain-length-dependent increase in cytotoxicity. N-alkylated deoxynojirimycins (C4-C18) were evaluated for their inhibitory effects on ceramide-specific glucosyltransferase and glycoprotein-processing α-glucosidase. Increasing the alkyl chain length had little effect on α-glucosidase activity, but inhibition of ceramide-specific glucosyltransferase increased 10-fold when C4 and C9-C18 compds. were compared. Overall these data provide further definition of the mol. features of alkylated imino sugars that influence

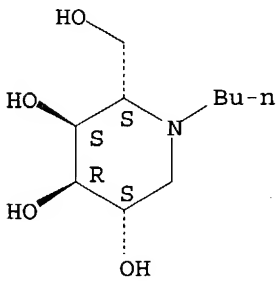
tissue selectivity and efficacy for cellular enzyme inhibition.
AN 2003:917259 CAPLUS
DN 140:181657
TI Preparation, biochemical characterization and biological properties of radiolabelled N-alkylated deoxynojirimycins
AU Mellor, Howard R.; Nolan, James; Pickering, Lea; Wormald, Mark R.; Platt, Frances M.; Dwek, Raymond A.; Fleet, George W. J.; Butters, Terry D.
CS Glycobiology Institute, Department of Biochemistry, University of Oxford, Oxford, 0X1 3QU, UK
SO Biochemical Journal (2002), 366(1), 225-233
CODEN: BIJOAK; ISSN: 0264-6021
PB Portland Press Ltd.
DT Journal
LA English
IT **324760-02-3P 441061-44-5P 658040-60-9P**
658040-61-0P 658040-62-1P 658040-63-2P
658040-64-3P 658040-65-4P 658040-66-5P
658040-67-6P 658040-69-8P 658040-71-2P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of N-alkylated and radiolabeled N-alkylated deoxynojirimycin imino sugars, their cytotoxicity, protein binding, cell uptake, and enzyme inhibitory activity)
RN 324760-02-3 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-nonyl-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



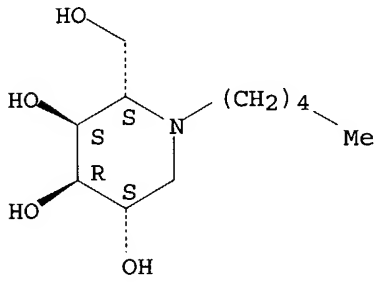
RN 441061-44-5 CAPLUS
CN 3,4,5-Piperidinetriol, 1-butyl-2-(hydroxymethyl)-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



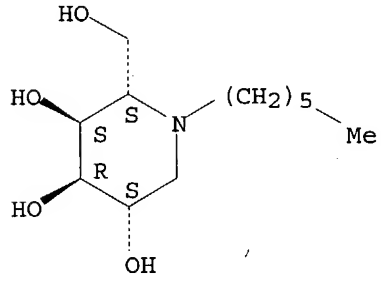
RN 658040-60-9 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-pentyl-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



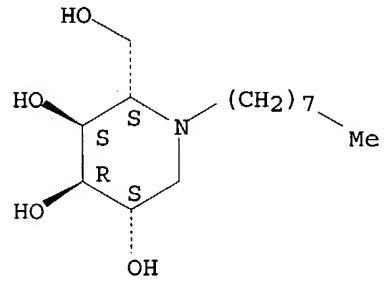
RN 658040-61-0 CAPLUS
CN 3,4,5-Piperidinetriol, 1-hexyl-2-(hydroxymethyl)-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



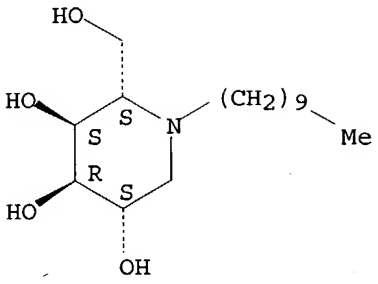
RN 658040-62-1 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-octyl-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



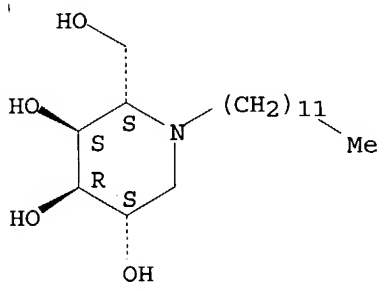
RN 658040-63-2 CAPLUS
CN 3,4,5-Piperidinetriol, 1-decyl-2-(hydroxymethyl)-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



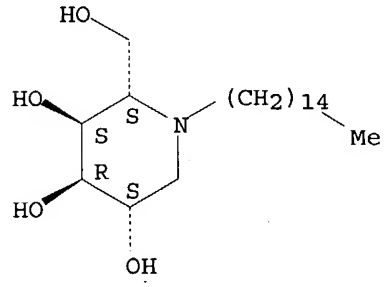
RN 658040-64-3 CAPLUS
CN 3,4,5-Piperidinetriol, 1-dodecyl-2-(hydroxymethyl)-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



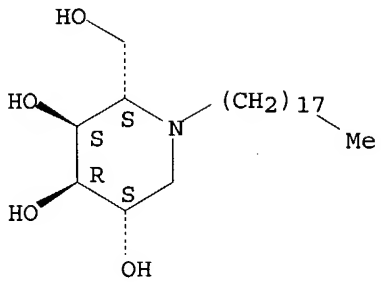
RN 658040-65-4 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-pentadecyl-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



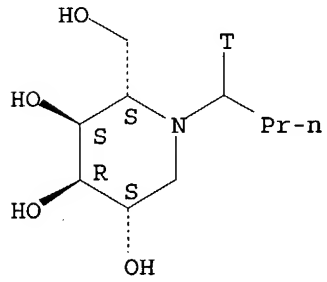
RN 658040-66-5 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-octadecyl-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



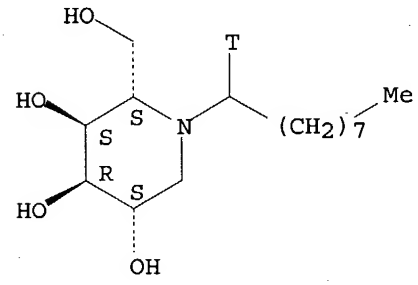
RN 658040-67-6 CAPLUS
CN 3,4,5-Piperidinetriol, 1-(butyl-1-t)-2-(hydroxymethyl)-, (2S,3S,4R,5S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



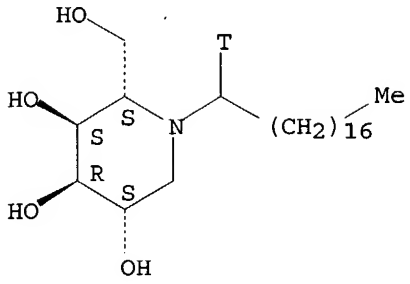
RN 658040-69-8 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-(nonyl-1-t)-, (2S,3S,4R,5S)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 658040-71-2 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-(octadecyl-1-t)-,
(2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AB N-Nonyl-deoxy-galactonojirimycin (N-nonyl-DGJ) has been shown to reduce the amount of hepatitis B virus (HBV) produced by tissue cultures under conditions where cell viability is not affected. We show here that the compound N-nonyl-DGJ was effective against lamivudine-resistant HBV mutants bearing the YMDD motif in the polymerase gene, consistent with the compound's activity being distinct from those of nucleoside inhibitors. To better understand the chemical structures that influence its antiviral activity, a series of imino sugar derivs. were made and tested for their antiviral activity against HBV. This work suggest that the antiviral activity of the alkovirs requires an alkyl chain length of at least eight carbons but that the galactose-based head group can be modified with little or no loss in activity.

AN 2002:908488 CAPLUS
DN 138:395412

TI Structure-activity relationship of a new class of anti-hepatitis B virus agents

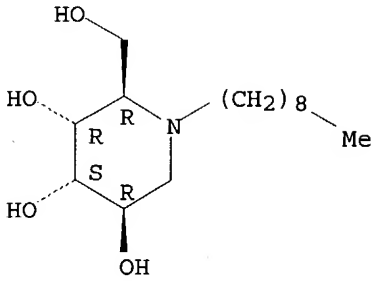
AU Mehta, Anand; Conyers, Bertha; Tyrrell, D. L. J.; Walters, Kathie-Anne; Tipples, Graham A.; Dwek, Raymond A.; Block, Timothy M.
CS Department of Biochemistry and Molecular Pharmacology, The Jefferson Center, Jefferson Medical College, Doylestown, PA, 18901-2697, USA

SO Antimicrobial Agents and Chemotherapy (2002), 46(12), 4004-4008
CODEN: AMACCQ; ISSN: 0066-4804
PB American Society for Microbiology
DT Journal
LA English

IT **532437-19-7**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(structure-activity relationship of imino sugar derivs., a new class of anti-hepatitis B virus agents)

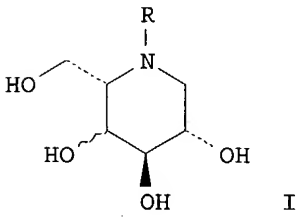
RN 532437-19-7 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-nonyl-, (2R,3R,4S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

AB Aza-sugar piperidine derivs. I wherein R is C1-16 alkyl, C3-7 cycloalkyl, and optionally interrupted by -O- the oxygen being separated from the ring nitrogen by at least two carbon atoms, or C1-10 alkylaryl where aryl is Ph, pyridyl, thienyl or furyl wherein Ph is optionally substituted by one or more substituents selected from F, Cl, Br, CF3, OCF3, OR1, and C1-6 straight or branched-chain alkyl; and R1 is hydrogen, or C1-6 straight or branched-chain alkyl; represents various substituent groups, were prepared and are useful as inhibitors of galactosidase and glucosylceramide synthase. Thus, (2S,3R,4R,5S)-1-pentyl-2-(hydroxymethyl)-3,4,5-piperidinetriol was prepared and tested as inhibitor of human glucosylceramide synthase (IC50 = 4.0 μM).

AN 2002:539660 CAPLUS
DN 137:93950
TI Preparation of pharmaceutically active aza-sugar piperidine derivatives as inhibitors of galactosidase and glucosylceramide synthase
IN Butters, Terence D.; Dwek, Raymond A.; Fleet, George; Orchard, Michael Glen; Platt, Frances Mary
PA Oxford Glycosciences (UK) Ltd., UK; The Chancellor, Masters and Scholars of the University of Oxford
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002055498	A1	20020718	WO 2002-GB106	20020111

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1362031	A1	20031119	EP 2002-729458	20020111	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
BR 2002006433	A	20031230	BR 2002-6433	20020111	
JP 2004517869	T2	20040617	JP 2002-556170	20020111	
US 2004097551	A1	20040520	US 2003-618165	20030711	
PRAI GB 2001-889	A	20010112			
WO 2002-GB106	W	20020111			

OS MARPAT 137:93950

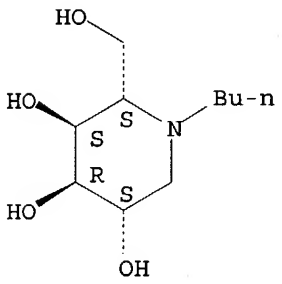
IT **441061-44-5P**

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pharmaceutically active aza-sugar piperidine derivs. as inhibitors of galactosidase and glucosylceramide synthase)

RN 441061-44-5 CAPLUS

CN 3,4,5-Piperidinetriol, 1-butyl-2-(hydroxymethyl)-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



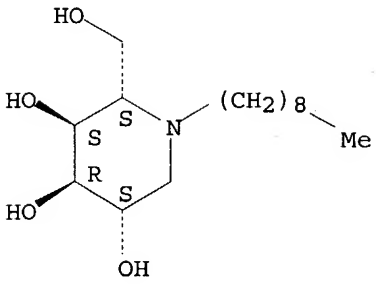
IT **324760-02-3**

RL: NUU (Other use, unclassified); USES (Uses)
(preparation of pharmaceutically active aza-sugar piperidine derivs. as inhibitors of galactosidase and glucosylceramide synthase)

RN 324760-02-3 CAPLUS

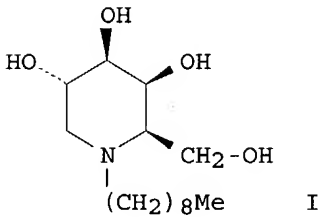
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-nonyl-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
GI



I

AB Long chain N-alkyl amino and imino compds., oxa-substituted derivs. R5R4R3CNR2R1 were prepared wherein; R1 is an alkyl or an oxa-substituted derivative thereof; R2 is hydrogen, R3 is carboxy or alkoxycarbonyl, or R2 and R3, together, are -(CXY)n-, wherein n is 3 or 4, each X, independently, is selected from the group consisting of hydrogen, hydroxy, amino, carboxy, alkylcarboxy, alkyl, alkoxy, hydroxyalkyl, acyloxy, and aroyloxy, and each Y, independently, is selected from the group consisting of hydrogen, hydroxy, amino, carboxy, alkylcarboxy, alkyl, alkoxy, hydroxyalkyl, acyloxy, aroyloxy, and deleted; R4 is hydrogen or deleted; and R5 is selected from the group consisting of hydrogen, hydroxy, amino, substituted amino, carboxy, alkoxycarbonyl, aminocarbonyl, alkyl, aryl, aralkyl, alkoxy, hydroxyalkyl, acyloxy, and aroyloxy, or R3 and R5, together, form a Ph and R4 is deleted; wherein when R2 and R3, together, are -(CXY)n- and R4 is deleted, all Y are deleted, or a physiol. acceptable salt or solvate of said compound thereof, and pharmaceutical compns. including such compds. are described. The long chain N-alkyl compds. and oxa-substituted derivs. thereof can be used in the treatment of viral infections, in particular hepatitis B virus or hepatitis C virus, in a cell or an individual. For example, the long chain N-alkyl compds. or oxa-substituted derivs. thereof can be derived from piperidines, pyrrolidines, phenylamines, pyridines, pyrroles, or amino acids. Thus, imino alditol I was prepared and tested for its antiviral activity against hepatitis B virus or hepatitis C virus, in a cell or an individual (EC50 = 2-3 μM).

AN 2001:114972 CAPLUS

DN 134:163282

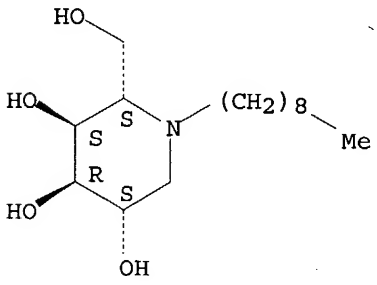
TI Preparation of long chain N-alkyl amino and imino alditols and

oxa-derivatives as antiviral agents
IN Zitzmann, Nicole; Butters, Terry D.; Platt, Frances M.; Carrouee, Sandra; Jacob, Gary S.; Picker, Donald H.; Fleet, George W. J.; Dwek, Raymond A.
PA UK
SO PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

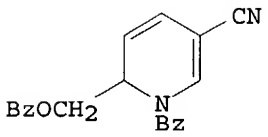
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001010429	A2	20010215	WO 2000-US21732	20000810
	WO 2001010429	A3	20010816		
	W: AU, BR, CA, CN, IN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 2001018401	A5	20010305	AU 2001-18401	20000810
	EP 1210082	A2	20020605	EP 2000-952683	20000810
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	JP 2003506406	T2	20030218	JP 2001-514949	20000810
PRAI	US 1999-148101P	P	19990810		
	US 2000-198621P	P	20000420		
	WO 2000-US21732	W	20000810		

OS MARPAT 134:163282
IT **324760-02-3**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of long chain N-alkyl amino and imino alditols and oxa-derivs. as antiviral agents)
RN 324760-02-3 CAPLUS
CN 3,4,5-Piperidinetriol, 2-(hydroxymethyl)-1-nonyl-, (2S,3S,4R,5S)- (9CI) (CA INDEX NAME)

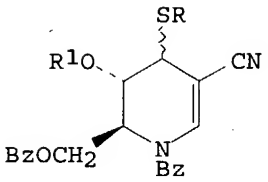
Absolute stereochemistry.



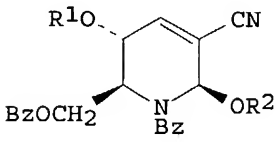
L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
GI



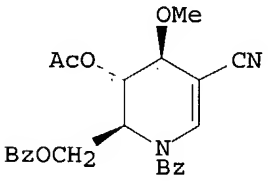
I



III



IV



V

AB Sensitized photooxidn. of 5-cyano-1,2-dihydropyridine derivative I afforded a crystalline and reactive endo-peroxide (II) and S derivs. III (R = Ph, R1 = H, Ac; R = CH2Ph, R1 = H). O derivs. IV (R1 = Me, R2 = H, Ac; R1 = CD3, R2 = Ac) and V were produced in good yield from II. IV (R1 = Me, R2 = Ac) was a good intermediate for production of 4-substituted compds., 1-O-methyl-5-benzamido-5-deoxyallopiperidinose and 1-O-methyl-5-benzamido-5-deoxyaltropiperidinose. Formation of IV and II was a multi-step reaction.

AN 1979:138117 CAPLUS
DN 90:138117

TI Synthetic study of amino sugars from pyridines. V. Synthesis of 5-amino-5-deoxypiperidinoses from the singlet oxygen adduct of 1-acyl-1,2-dihydropyridines

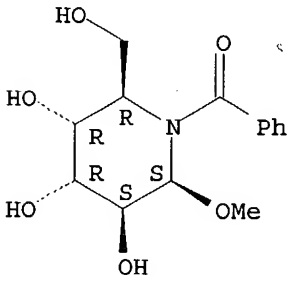
AU Natsume, Mitsutaka; Wada, Moritaka; Ogawa, Masashi
CS Itsuu Lab., Res. Found., Tokyo, Japan

SO Chemical & Pharmaceutical Bulletin (1978), 26(11), 3364-72
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English

IT **69538-38-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with diethoxypropane)

RN 69538-38-1 CAPLUS
CN 3,4,5-Piperidinetriol, 1-benzoyl-2-(hydroxymethyl)-6-methoxy-, (2α,3β,4β,5α,6α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



8/20/04

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	30.32	185.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.20	-4.20

FILE 'STNGUIDE' ENTERED AT 12:56:50 ON 20 AUG 2004

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 6, 2004 (20040806/UP).